

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-563  
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Ford Motor Company 1994 model-year Otto-cycle engine is certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Gasoline

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
RFM5.8B8GACA	5.8 (351)	Secondary Air Injection Exhaust Gas Recirculation Heated Oxygen Sensor Sequential Multiport Fuel Injection Three Way Catalytic Converter

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family in grams per brake horsepower-hour:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.1	14.4	5.0

The following are the certification emission values for this engine family in grams per brake horsepower-hour:

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
RFM5.8B8GACA	0.6	7.8	4.4

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et. seq.).

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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 15<sup>th</sup> day of July, 1993.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

## 1994 AIR RESOURCES BOARD-SUPPLEMENTAL DATA SHEET

Manufacturer: Ford Motor CompanyEngine Family: RFM5.8B8GACA (R5.8A)Evaporative Family: RFM1065AYC0A (HA)Engine Type: V-8Liters (CID): 5.8L (351)

## ABBREVIATIONS:

Ignition System

DLI-Distributorless  
Ignition  
EI-Electronic Ignition  
PCM-Powertrain Control  
Module

Special Features

MIL-Malfunction  
Indicator Light  
OBD-On Board  
Diagnostics

Exhaust Emissions Control System

AIR-Secondary Air Injection  
ECTS-Engine Coolant Temp Sensor  
EGR-Exhaust Gas Recirculation  
EM-Engine Modification  
HO2S-Heated Oxygen Sensor  
KS-Knock Sensor  
MAP-Manifold Absolute  
Pressure Sensor  
OC-Oxidation Catalyst  
O2S-Oxygen Sensor  
SABV-Secondary Air Bypass Valve  
SASV-Secondary Air Switching Valve  
SPL-Smoke Puff Limiter  
TOC-Trip Oxidizer: Continuous  
TOP-Trip Oxidizer: Periodic  
TPS-Throttle Position Sensor  
TWC-Three Way Catalyst  
TWC+OC-Three Way Catalyst  
Plus Oxidation Catalyst  
WUOC-Warm Up Oxidation Catalyst  
WUTWC-Warm Up Three Way Catalyst  
Injection  
CARB- Carburetted

Fuel System

DI-Direct Injection  
(Diesel)  
EIC-Electronic Injection  
Control (Diesel)  
IC-Intercooler or  
Aftercooler  
IDI-Indirect Diesel  
Injection  
MPI-Multipoint Electronic  
Fuel Injection  
SC-Supercharged  
SMPI-Sequential  
Multipoint  
Electronic Fuel  
Injection  
TAA-Turbocharged,  
Air to Air (Diesel)  
TAW-Turbocharged, Air to  
Air to Water (Diesel)  
TBI-Throttle Body  
Electronic Fuel

VEHICLE MODELS: E250/E350/F250/F350/Strip Chassis or CutawayEngine: Front XXX Mid    Rear   Drive: FWD    RWD XXX 4WD Full Time    4WD Part Time   Engine Family: R5.8A

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Issue Date: 6-28-93

Revised:

E.O. # A-10-563

# 1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

## HEAVY DUTY OTTO-CYCLE ENGINES

Manufacturer Ford Motor Company Engine Family RFM5.8B8QACA (R5.8A)Liters (CID): 5.8L (351) Fuel Type: Gasoline Engine Type: V-8Exhaust ECS & Special Features (ECM/PCM, CARB, MPI, etc.) AIR/EGR/HQ29/SFI/TWC  
(Use abbreviations per SAE J1930 JUN88)

Engine Model (Engine Code)	Rated HP @ RPM	Ign. System or PCM	Fuel System Injtr	EGR Valve	Catalyst
		Part No. -12A860-	Part No. -9F593-	Part No. -9F483-	Part No. -5E212-
4-75A-R00	210 @ 3800	F4TF-AHA	F2TE-AA	F3TE-EA	F4TA-AA alt: F4TA-AB F4TA-AC
4-76A-R00	"	F4TF-PA	"	"	"
4-76C-R00	"	F4TF-AJA	"	"	"
R/C: 5.8 - 2					
4-76A-R10	210 @ 3800	F4TF-AHB	F2TE-AA	F3TE-EA	F4TA-AA alt: F4TA-AB F4TA-AC
4-76A-R10	"	F4TF-PB	"	"	"
4-76C-R10	"	F4TF-AJB	"	"	"

Comments: See 20.17.02.00-1 for abbreviations and 20.17.02.00-4 for evaporative emission family identification.

Engine Family: R5.8A

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Issue Date: 6-28-93

Revised: 3-29-94 4-07-94